

CLAIMS

What is claimed is:

1. A cabinet for a projection television system, the projection television system having a plurality of optical components, the cabinet comprising:
a one-piece molded structure for mounting the components; and
locating features unitary with the structure and for optically aligning the components with one another.
2. The cabinet according to claim 1, wherein the optical components include a light projector assembly for generating images, a screen for viewing the images, and at least one mirror for directing the images generated by the projector assembly to the screen.
3. The cabinet according to claim 2, wherein the locating features comprise a plurality of reference surfaces.
4. The cabinet according to claim 1, wherein the optical components include a mirror and the locating features include a pocket and at least one slot that define a reference plane for the mirror.
5. The cabinet according to claim 1, wherein the optical components include a screen and the locating features include a pocket that defines a reference plane for the screen.
6. The cabinet according to claim 1, wherein the optical components include a screen and the locating features include a plurality of fastener bosses and/or ribs that define a reference plane for the screen.
7. The cabinet according to claim 1, wherein the optical components include a light projector assembly and the locating features include a vertical wall that defines a reference surface for the light projector assembly.
8. The cabinet according to claim 1, wherein the optical components include a mirror and the locating features include two pockets that define a reference plane for the mirror.

9. The cabinet according to claim 1, wherein the locating features include at least one pocket that defines a reference plane for at least one of the components.

10. The cabinet according to claim 1, wherein the locating features include a vertical wall that defines a reference surface for at least one of the components.

11. The cabinet according to claim 1, wherein the locating features include at least one slot that defines a reference plane for at least one of the components.

12. The cabinet according to claim 1, wherein the enclosure is molded from plastic.

13. The cabinet according to claim 1, wherein the locating features minimize tolerance stacks for mounting the components.

14. A cabinet for a projection television system, the projection television system having a plurality of optical components, the cabinet comprising:

a one-piece enclosure for mounting the components; and
reference surfaces unitary with the enclosure, for optically aligning the components with one another.

15. The cabinet according to claim 14, wherein the components include a mirror and the reference surfaces include a pocket and at least one slot that define a reference plane for the mirror.

16. The cabinet according to claim 15, wherein the components include a second mirror and the reference surfaces include two pockets that define a reference plane for the second mirror.

17. The cabinet according to claim 14, wherein the components include a screen and the reference surfaces include a pocket that defines a reference plane for the screen.

18. The cabinet according to claim 14, wherein the components include a screen and the reference surfaces include a plurality of fastener bosses and/or ribs that define a reference plane for the screen.

19. The cabinet according to claim 14, wherein the components include a light projector assembly and the reference surfaces include a vertical wall that defines a reference surface for the light projector assembly.

20. The cabinet according to claim 14, wherein the enclosure is molded from plastic and the locating surfaces minimize tolerance stacks for mounting the components.

21. A cabinet for a projection television system, the projection television system having a plurality of optical components, the cabinet comprising:

- a one-piece molded structure for mounting the components; and
- locating means unitary with the structure, for mechanically aligning the components with one another.

22. A cabinet for a projection television system, the projection television system having a plurality of optical components, the cabinet comprising:

- a one-piece enclosure for mounting the components; and
- reference surfaces unitary with the enclosure, for mechanically aligning the components with one another.